

PATENT  
P56260**IN THE CLAIMS**

Please amend claims 31 and 32 as follows:

1           1. (Previously Presented) A communication method in a wireless in-building  
2 communication system connected to a public land mobile network including a mobile  
3 switching center and a base station controller, said method comprising the steps of:  
4           forming a common cell area in which a wireless public communication service and  
5 a wireless in-building communication service are available through a private base station;  
6           requesting a communication service at a mobile terminal in the common cell area;  
7           determining, in response to the requesting of the communication service, whether  
8 the mobile terminal is registered for the wireless in-building communication service;  
9           providing the wireless in-building communication service to a registered mobile  
10 terminal; and  
11           bypassing the communication service request of an unregistered mobile terminal  
12 to the public land mobile network.

Claims 2-4. (Canceled)

1           5. (Previously Presented) The method of claim 1, wherein the communication  
2 service includes voice and data services.

Claims 6-9. (Canceled)

PATENT  
P56260

1           10. (Previously Presented) The method of claim 1, wherein signals from the  
2 registered mobile terminal are outputted to at least one antenna mounted in said common  
3 cell area, and said at least one antenna is coupled to the wireless in-building  
4 communication system.

1           11. (Previously Presented) The method of claim 1, wherein the registered mobile  
2 terminal communicates with one of a wire extension terminal and a wireless extension  
3 terminal, and the registered mobile terminal wirelessly performs a data service through an  
4 Internet protocol network.

Claims 12-14. (Canceled)

1           15. (Previously Presented) A unified in-building communication apparatus  
2 connected to a public land mobile network, said apparatus comprising:

3           a private base station for forming a common cell area in which a public land  
4 mobile network service and an in-building wireless network service are available;

5           a call manager responsive to a communication service request from a mobile  
6 terminal in the common cell area for determining whether the mobile terminal is  
7 registered for the in-building wireless network service, and for controlling provision of a  
8 corresponding service according to a result of the determination; and

9           a public/private communication service unit responsive to control by said call  
10 manager for providing the in-building wireless network service to a registered mobile  
11 terminal, and for bypassing the communication service request of an unregistered mobile

PATENT  
P56260

12 terminal to the public land mobile network.

Claims 16-27. (Canceled)

1 28. (Previously Presented) The method of claim 1, wherein the wireless in-  
2 building communication service provided to the registered mobile terminal includes a  
3 communication service between the registered mobile terminal and a wire extension  
4 terminal.

1 29. (Previously Presented) The method of claim 1, wherein the wireless in-  
2 building communication service provided to the registered mobile terminal includes a  
3 communication service between the registered mobile terminal and a wireless extension  
4 terminal.

1 30. (Previously Presented) The method of claim 1, wherein the wireless in-  
2 building communication system is connected to an Internet protocol network through a  
3 local area network.

1 31. (Currently Amended) The method of claim 30, wherein the wireless in-  
2 building communication service provided to the registered mobile terminal includes a  
3 data communication service between the registered mobile terminal and [[an]] the  
4 Internet protocol network.

PATENT  
P56260

1           32. (Currently Amended) The apparatus of claim 15, wherein the public/private  
2 communication service unit comprises:

3           an Internet protocol-private branch exchange for performing switching for  
4 establishing communication between [[a]] the mobile terminal in the common cell area  
5 and a wire extension terminal, and for providing a path between a wireless extension  
6 terminal and one of a public switched telephone network and an integrated service digital  
7 network; and

8           a private base station controller for allocating a vocoder in response to a call  
9 request of the mobile terminal in the common cell area, and for providing a  
10 communication path to the mobile terminal in the common cell area.

1           33. (Previously Presented) The apparatus of claim 32, further comprising:

2           a router for providing access between the unified in-building communication  
3 apparatus and an Internet protocol network; and

4           a local area network switch connected to the unified in-building communication  
5 apparatus through the router for switching data of the unified in-building communication  
6 apparatus, and for connecting the unified in-building communication apparatus to the  
7 Internet protocol network through a local area network.

1           34. (Previously Presented) The apparatus of claim 33, further comprising a  
2 transcoder and selector bank interface for providing an interface between the local area  
3 network switch and the private base station controller.

PATENT  
P56260

1           35. (Previously Presented) The apparatus of claim 34, wherein the private base  
2 station controller is connected to a private base station and to the public land mobile  
3 network through respective communication lines, and includes a local interface assembly  
4 for providing an interface therebetween.

1           36. (Previously Presented) The apparatus of claim 35, wherein the local interface  
2 assembly generates and outputs inter-process communication data from communication  
3 data which is received from the private base station and the public land mobile network,  
4 and outputs communication data from inter-process communication data which is  
5 transmitted to the private base station and the public land mobile network.

1           37. (Previously Presented) The apparatus of claim 36, further comprising a high  
2 capacity inter-process communication node board assembly connected to the local  
3 interface assembly, the transcoder and selector bank interface, and the call manger,  
4 respectively, for performing inter-process communication data processing between the  
5 local interface assembly, the transcoder and selector bank interface, and the call manager.